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Page# 1



U.S. Application No.: 09/981,085

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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OFFICE OF PETITIONS

Applicant: Isaksen et al

U. S. Serial No: 09/981,085

Examiner:

5 Filed: October 16, 2001

Group Art Unit: 2133

Title: "LINEAR PHASE ROBUST CARRIER RECOVERY FOR QAM MODEMS."

Mail Stop Petitions

10 Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

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Office of Patent Publication
Director's Office

PETITION TO WITHDRAW HOLDING OF ABANDONMENT under 37 CFR 1.181(a)

15 Dear Sir:

In response to the Notice of Abandonment mailed on 11/06/2003, the applicant contends that the above identified application is not in fact abandoned.

20 The applicant hereby petitions under 37 CFR 1.181(a) and requests withdrawal of the holding of abandonment.

Such petition does not require a fee under 37 CFR 1.181(a).

25 According to the Notice of Abandonment, the above identified patent application was abandoned for failure to reply to the Notice to File Missing Parts mailed on 11/16/2001.

THIS IS NOT CORRECT!

Indeed, our office has received the original Notice to File Missing Parts dated 11/16/2001. Our office has responded with substitute drawings in compliance with 37 CFR 1.84, and mailed the substitute drawings via U.S. Postal Service by Certified Mail on 01/08/2002. Attached, please find a photocopy of the Return Receipt (corresponding to Certified Mail Receipt dated 01/08/2002) that shows that the response was received by the USPTO on February 12, 2002.

Therefore, a complete reply was filed with the USPTO within the time frame originally provided. That is why the Patent Application No. 09/981,085 was not abandoned at the time the response (to the original Notice to File Missing Parts dated 11/16/2001) was mailed 01/08/2002.

In response to the present Notice of Abandonment dated 11/06/2003, we hereby submit again the **additional substitute drawings** drafted in compliance with 37CFR 1.84.

Please note that on March 12, 2003, the applicant has submitted a Status Request for this application but a reply was never received from the USPTO. A copy of the Status Request and it's corresponding certified mail and return receipts are attached.

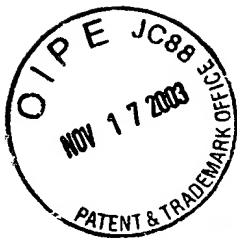
November 10, 2003

Respectfully submitted,


Boris Tankhilevich

Patent Attorney for the Applicant

Reg. No. 38,689.



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1. Article Addressed to: <i>(wideband-105 Status Request)</i>		B. Received by (Printed Name)	C. Date of Delivery
Commissioner of Patents & Trademarks USPTO Washington, DC 20231		D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
		Service Type: <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.	
2. Article Number (Transfer from service label):		4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	
7002 0460 0000 1352 6523			

PS Form 3811, August 2001 Domestic Return Receipt 102595-02-M-0835



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UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
09/981,085	10/16/2001	David Bruce Isaksen	Wideband-105/Tank-195

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CONFIRMATION NO. 5385

ABANDONMENT/TERMINATION
LETTER

OC000000011205092

Law Offices of Boris G. Tankhilevich
 Ste. A
 536 N. Civic Drive
 Walnut Creek, CA 94596



OFFICE OF PETITIONS

Date Mailed: 11/06/2003

NOTICE OF ABANDONMENT UNDER 37 CFR 1.53 (f) OR (g)

The above-identified application is abandoned for failure to timely or properly reply to the Notice to File Missing Parts (Notice) mailed on 11/16/2001.

- No reply was received.

A petition to the Commissioner under 37 CFR 1.137 may be filed requesting that the application be revived.

Under 37 CFR 1.137(a), a petition requesting the application be revived on the grounds of **UNAVOIDABLE DELAY** must be filed promptly after the applicant becomes aware of the abandonment and such petition must be accompanied by: (1) an adequate showing of the cause of unavoidable delay; (2) the required reply to the above-identified Notice; (3) the petition fee set forth in 37 CFR 1.17(l); and (4) a terminal disclaimer if required by 37 CFR 1.137(d).

Under 37 CFR 1.137(b), a petition requesting the application be revived on the grounds of **UNINTENTIONAL DELAY** must be filed promptly after applicant becomes aware of the abandonment and such petition must be accompanied by: (1) a statement that the entire delay was unintentional; (2) the required reply to the above-identified Notice; (3) the petition fee set forth in 37 CFR 1.17(m); and (4) a terminal disclaimer if required by 37 CFR 1.137(d).

Any questions concerning petitions to revive should be directed to the "Office of Petitions" at (703) 305-9282. Petitions should be mailed to: Mail Stop Petitions, Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450.

A copy of this notice **MUST** be returned with the reply.

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Customer Service Center
 Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

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Request Withdrawal



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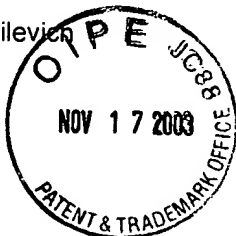
COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
www.uspto.gov

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
09/981,085	10/16/2001	David Bruce Isaksen	Wideband-105/Tank-195

CONFIRMATION NO. 5385

FORMALITIES LETTER

Law Offices of Boris G. Tankhilevich
Ste. A
536 N. Civic Drive
Walnut Creek, CA 94596



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OFFICE OF PETITIONS



Date Mailed: 11/16/2001

NOTICE TO FILE CORRECTED APPLICATION PAPERS

Filing Date Granted

This application has been accorded an Application Number and Filing Date. The application, however, is informal since it does not comply with the regulations for the reason(s) indicated below. Applicant is given **TWO MONTHS** from the date of this Notice within which to correct the informalities indicated below. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.436(a).

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The required item(s) identified below must be timely submitted to avoid abandonment:

- Substitute drawings in compliance with 37 CFR 1.84 because:

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- drawing sheets do not have the appropriate margin(s) (see 37 CFR 1.84(g)). Each sheet must include a top margin of at least 2.5 cm. (1 inch), a left side margin of at least 2.5 cm. (1 inch), a right side margin of at least 1.5 cm. (5/8 inch), and a bottom margin of at least 1.0 cm. (3/8 inch);
- Drawings must be reasonably free from erasures and must be free from alterations, overwritings, interlineations, folds, and copy marks.

*A copy of this notice **MUST** be returned with the reply.*

Beth T. Banta
Customer Service Center
Initial Patent Examination Division (703) 308-1202

PART 1 - ATTORNEY/APPLICANT COPY



Attorney's Docket No.: Wideband-105/Tank-195

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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OFFICE OF PETITIONS

Applicant: David Isaksen et al.

U. S. Serial No: 09/981,085

Examiner:

Filed: October 16, 2001

Group Art Unit: 2133

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Title: "LINEAR PHASE ROBUST CARRIER RECOVERY FOR QAM MODEMS" DEC 10 2003

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Mail Stop Petitions
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING

I certify that the Petition to Withdraw Holding Of Abandonment under 37 CFR 1.181(a) and formal drawings to the above-identified patent application were deposited by me with the U.S. Postal Service with postage prepaid and addressed to Mail Stop Petitions, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, at Oakland, California on November 10, 2003.

Date: November 10, 2003

Boris Tankhilevich,
Reg. No. 38,689

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THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: David Isaksen; Byron Danzer

U. S. Serial No: 09/981,085

Examiner:

Filed: October 16, 2001

Group Art Unit:

Title: "Linear Phase Robust Carrier Recovery for QAM Modems"

Commissioner for Patents
United States Patent and Trademark Office
Washington, D.C. 20231

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CERTIFICATE OF MAILING

I certify that the formal drawings to the above-identified patent application were deposited by me with the U.S. Postal Service with postage prepaid and addressed to Commissioner for Patents, United States Patent and Trademark Office, Washington, D.C. 20231, at Walnut Creek, California on January 8, 2002.

Date: January 8, 2002

Boris Tankhilevich,
Reg. No. 38,689

WASHINGTON DC 20231	
Postage	\$ 11.49
Certified Fee	\$ 2.10
Return Receipt Fee (Endorsement Required)	\$ 1.50
Restricted Delivery Fee (Endorsement Required)	\$ 0.00
Total Postage & Fees	\$ 15.09

WALNUT CREEK, CA 94596
JAN - 8 2002
U.S. POSTAL SERVICE

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USPTO
City State Zip+4: Washington DC 20231
PS Form 3800, May 2000

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1. Article Addressed to: (wideband-105) Commissioner for Patents USPTO Washington, DC 20231		<p>RECEIVED FEB 1 2002 USPTO MAIL CENTER</p> <p>Service Type: <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Registered <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	
2. Article Number (Transfer from service label) 7000 167 001 9085 1821			

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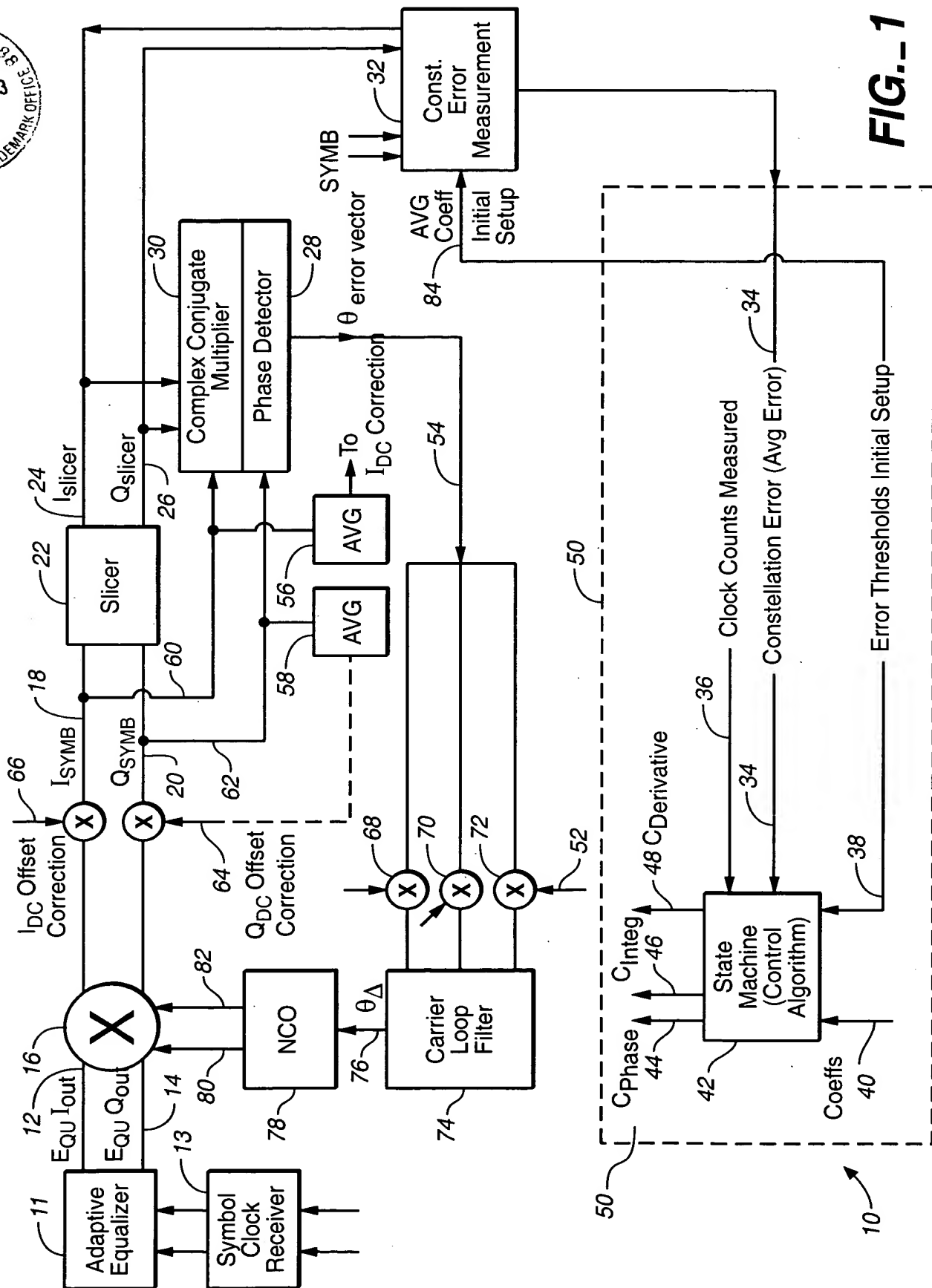


FIG. 1

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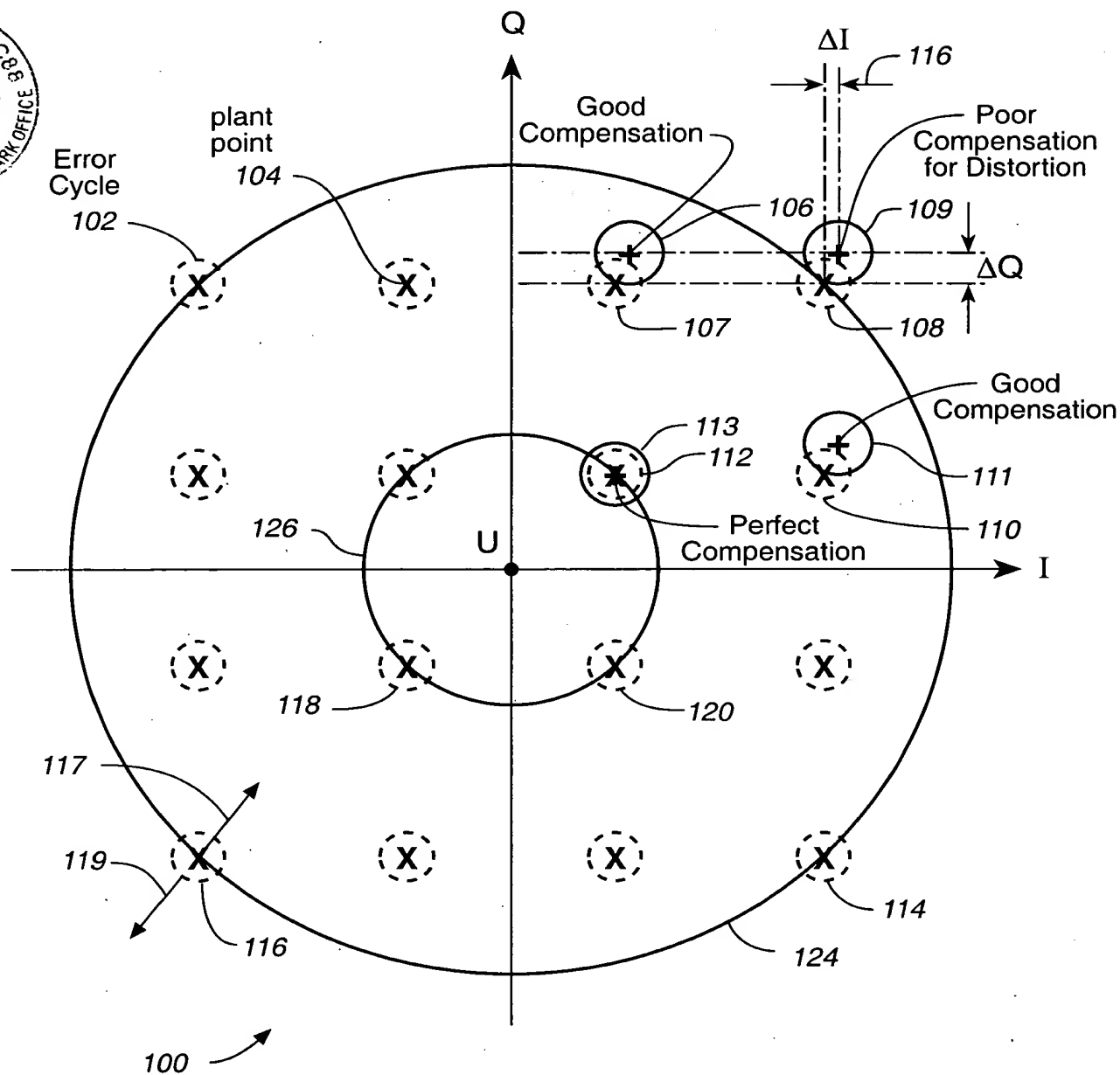


FIG. 2

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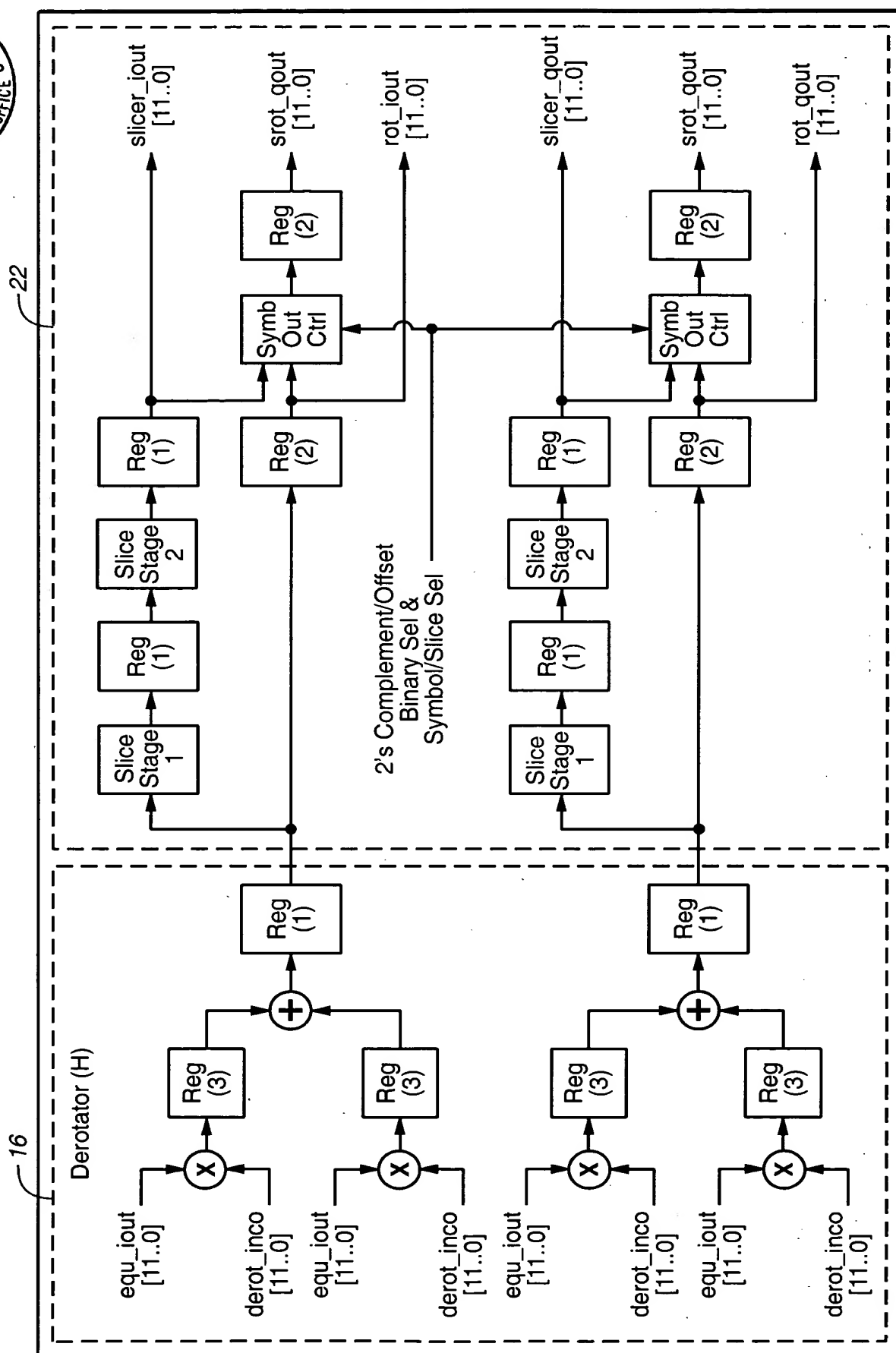


FIG. 3

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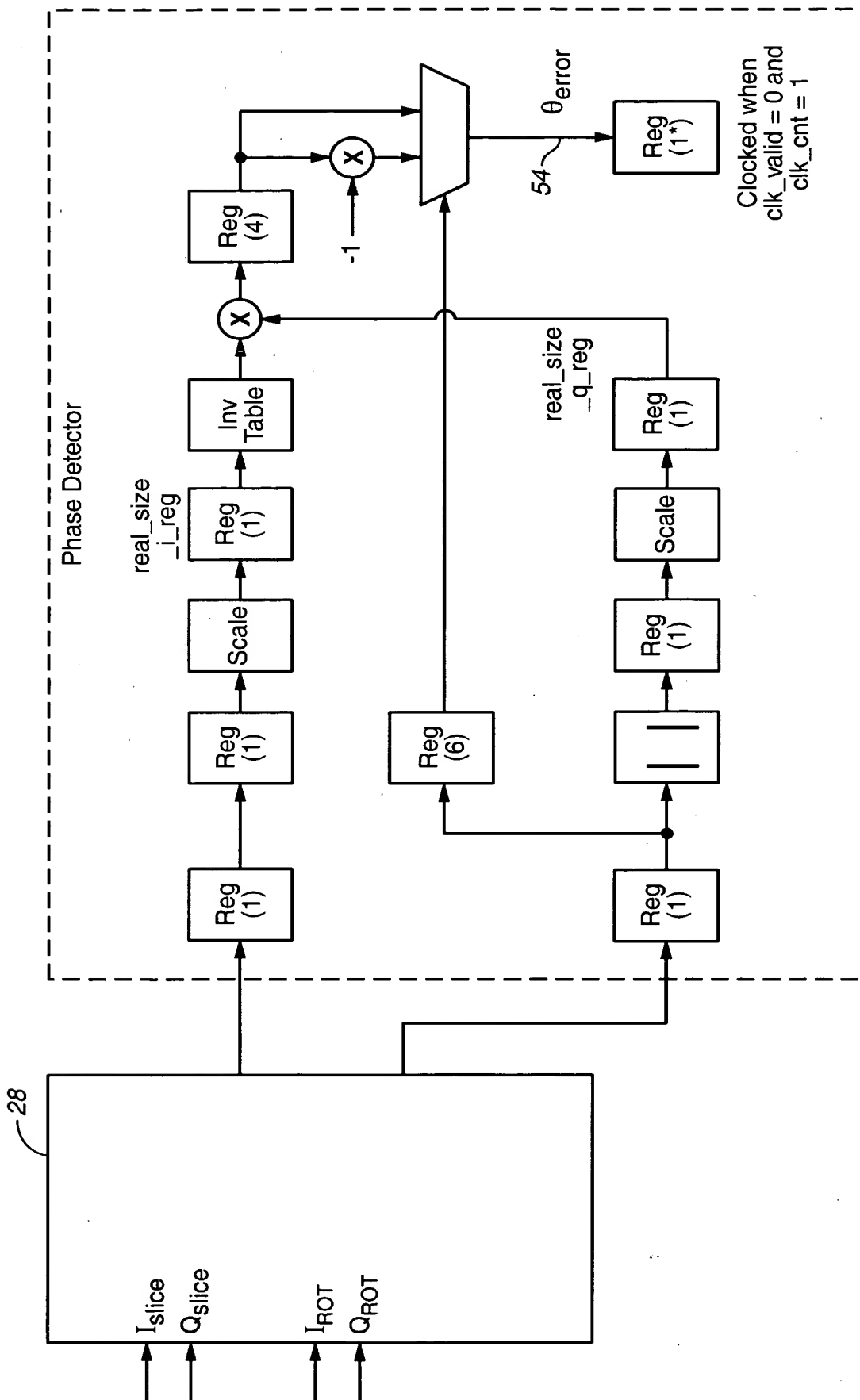


FIG. 4

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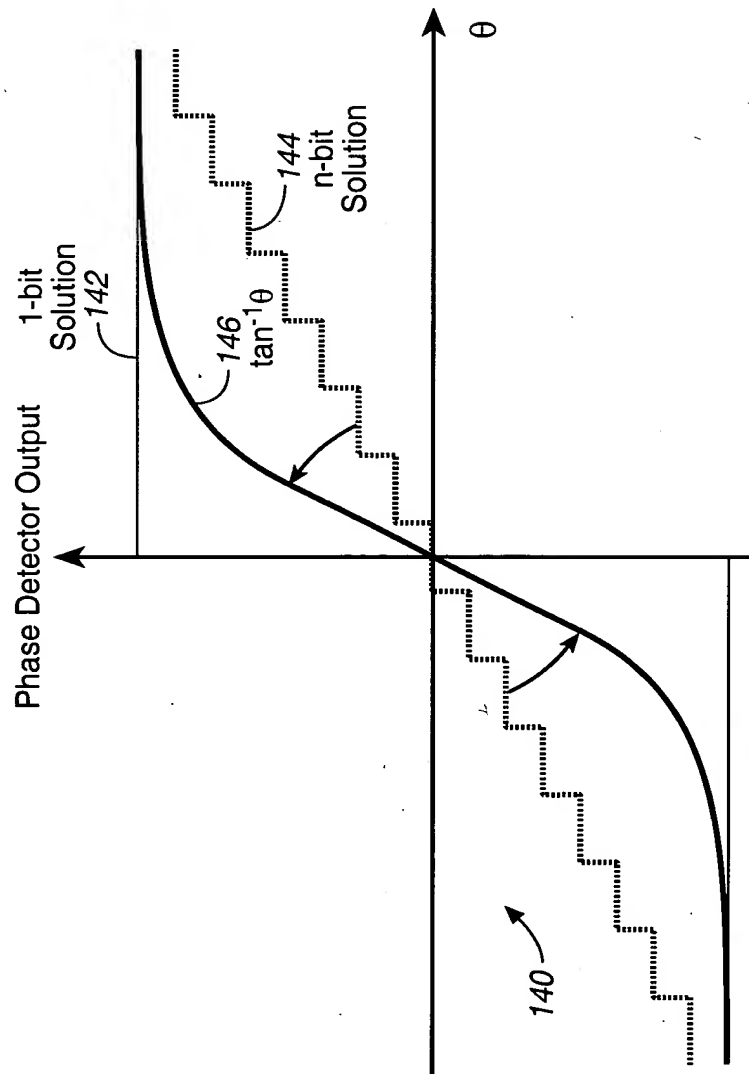
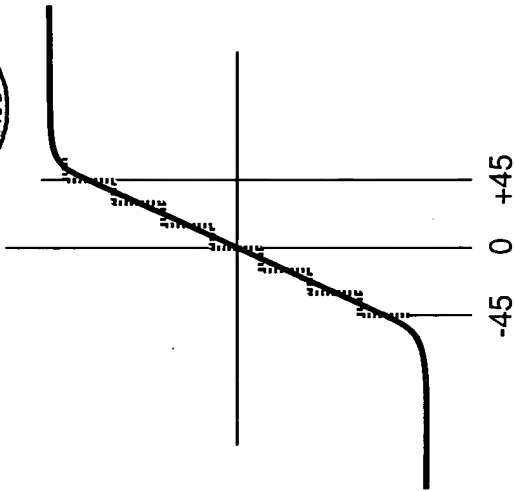


FIG. 5A

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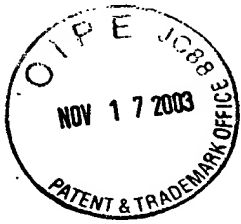


FIG..5B

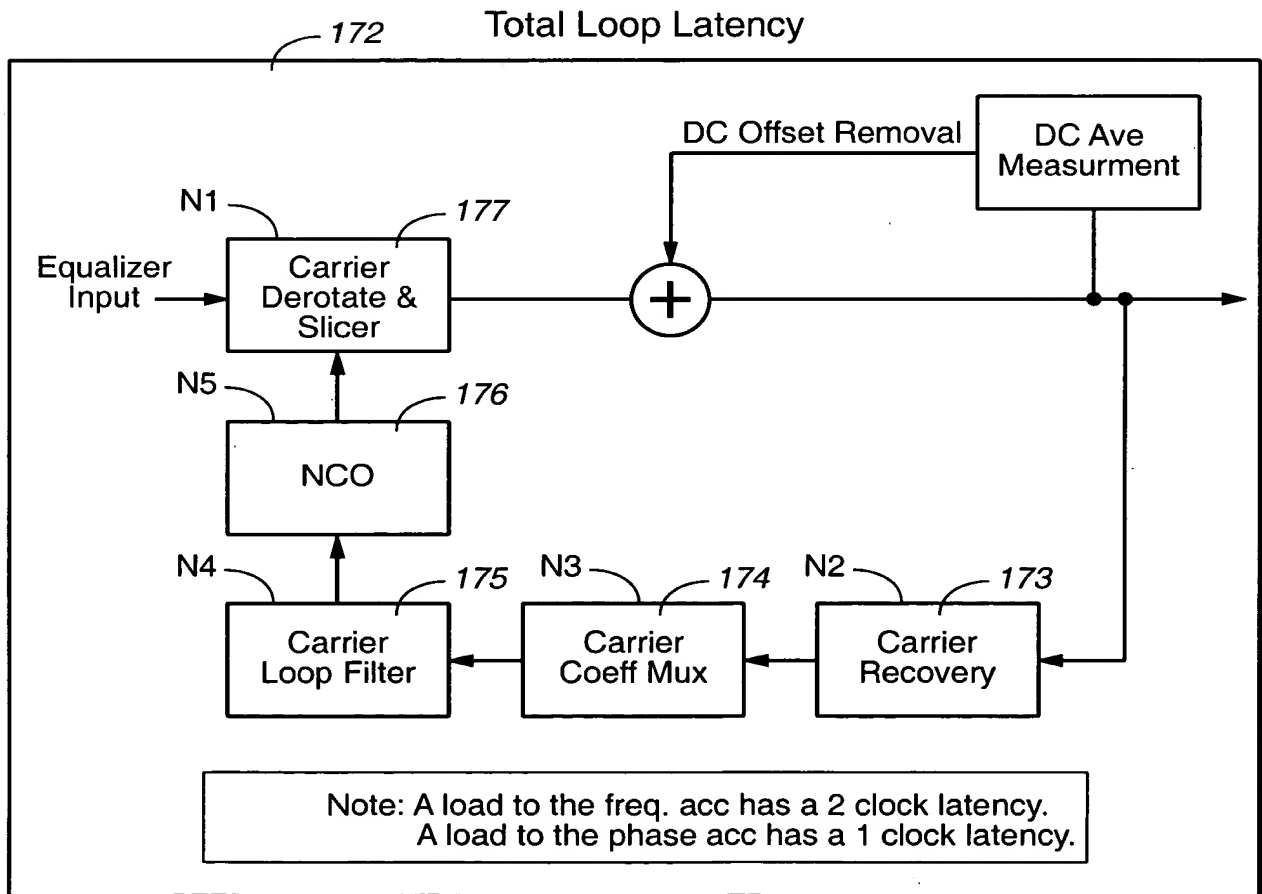
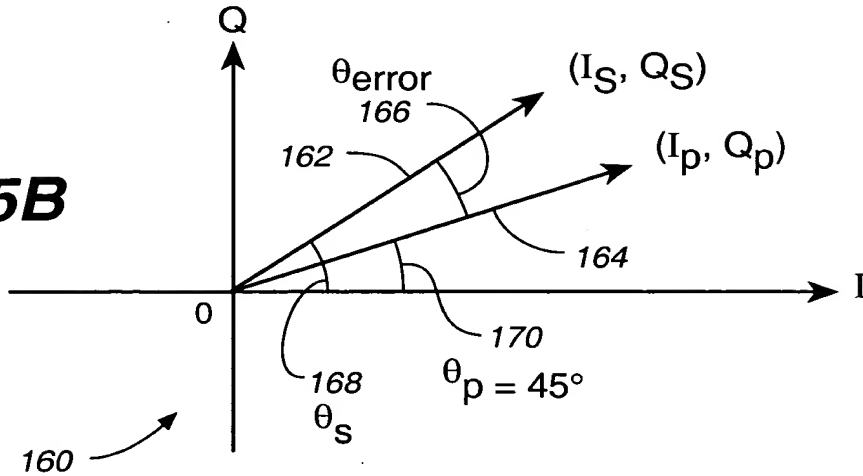


FIG..5C

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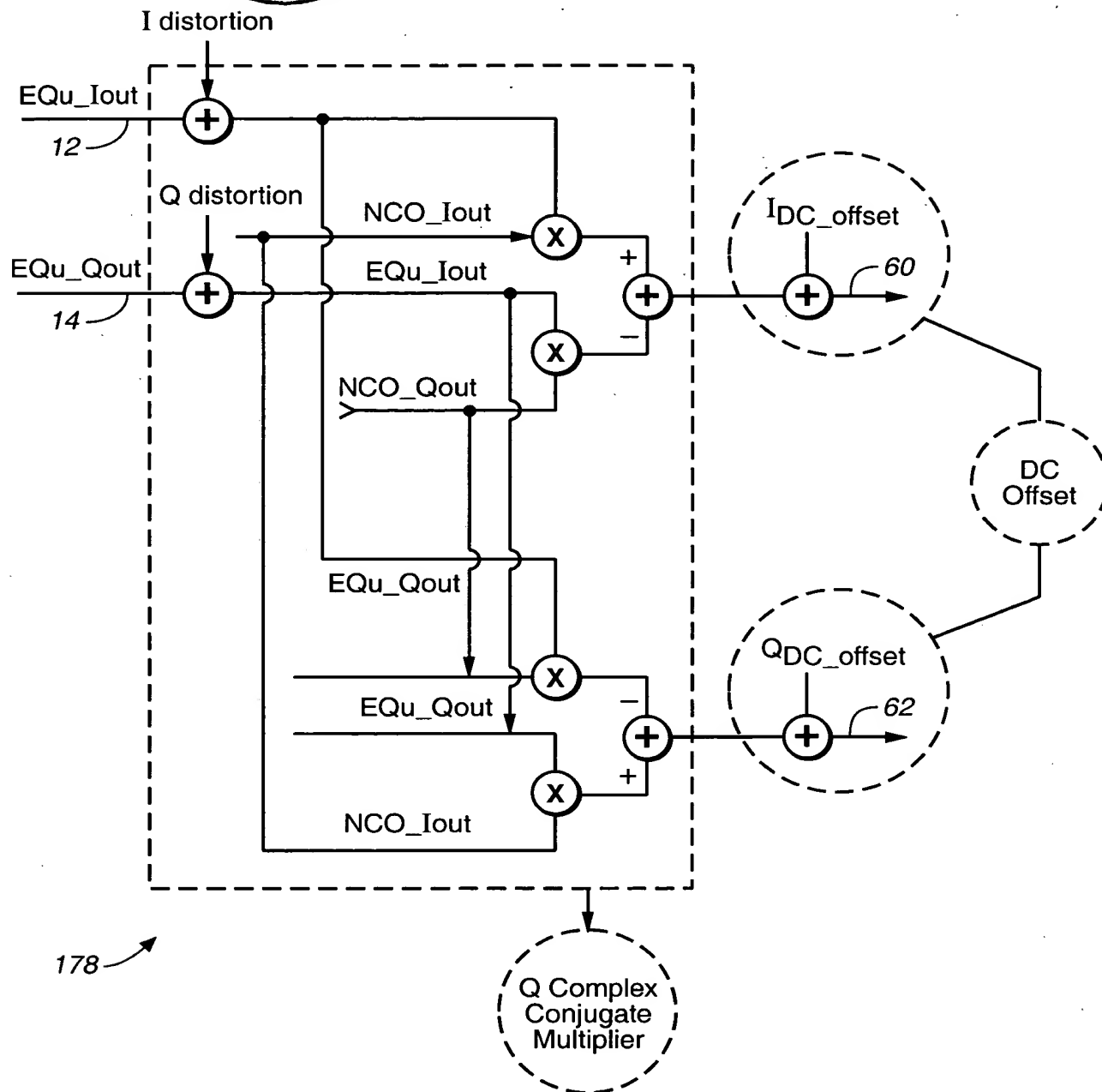


FIG. 6A

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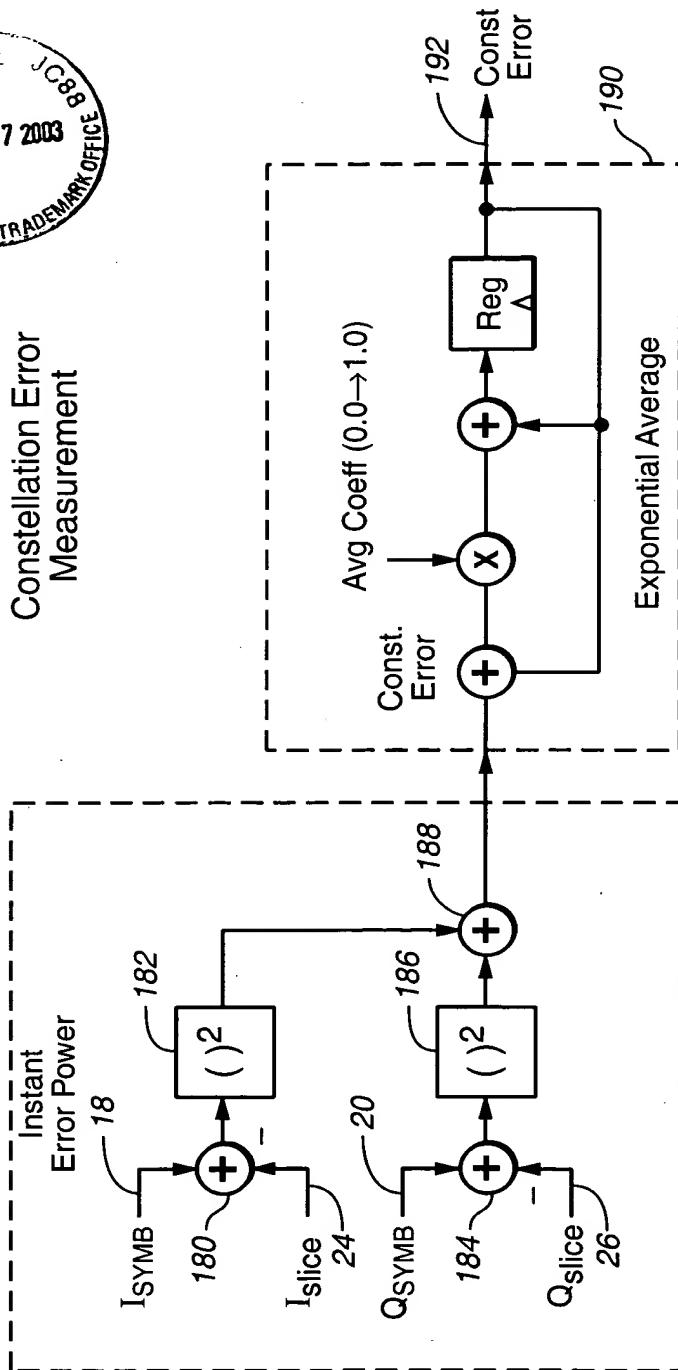
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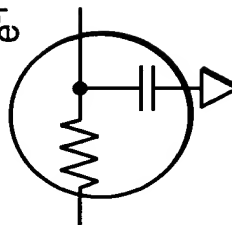
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Constellation Error Measurement



e^{-RCt}



If (Avg Coeff = 0) Output is Held (Input Ignore)
If (Avg Coeff = 1) Output = Input
Else Output is Exponential Avg of Inputs

FIG. 6B

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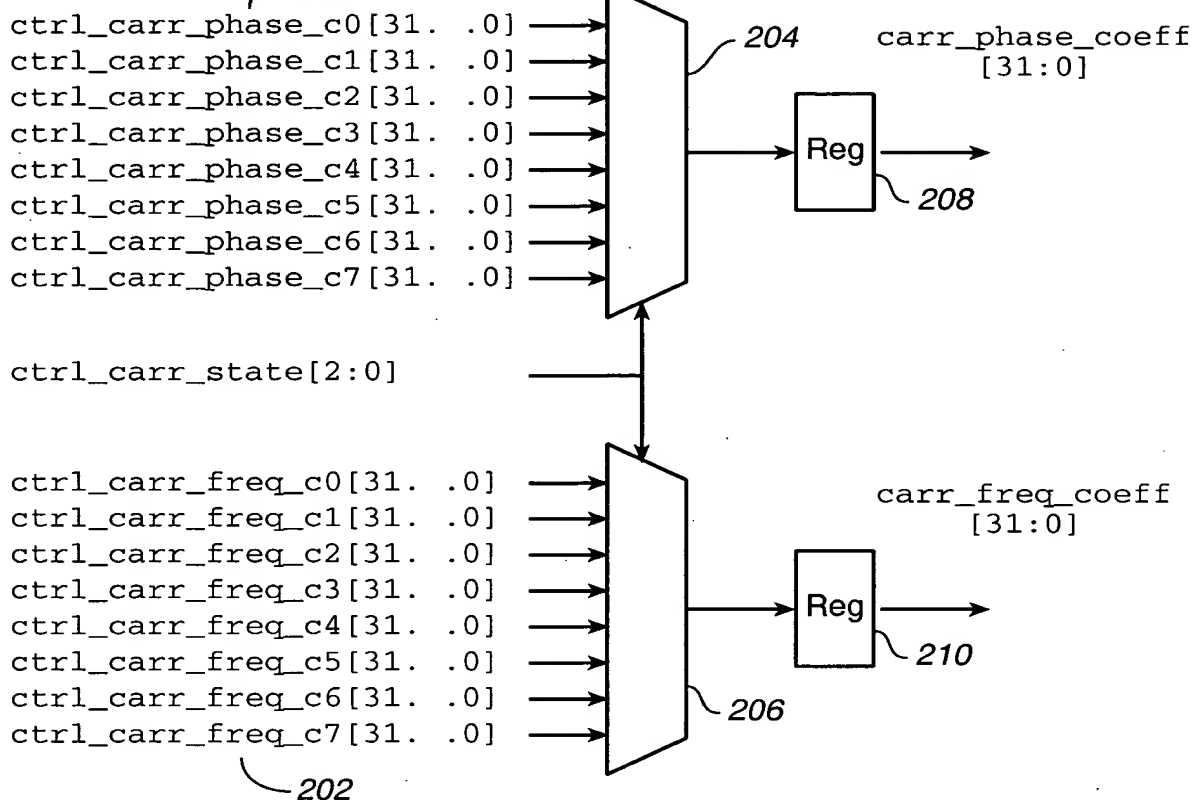


FIG. 7

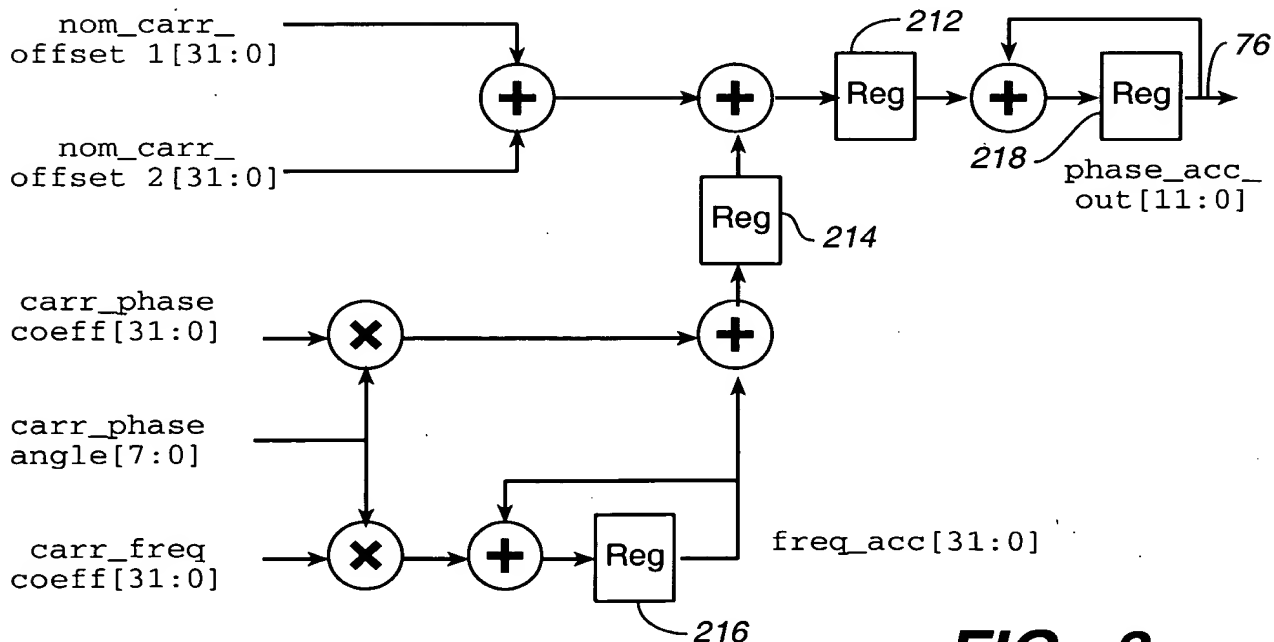
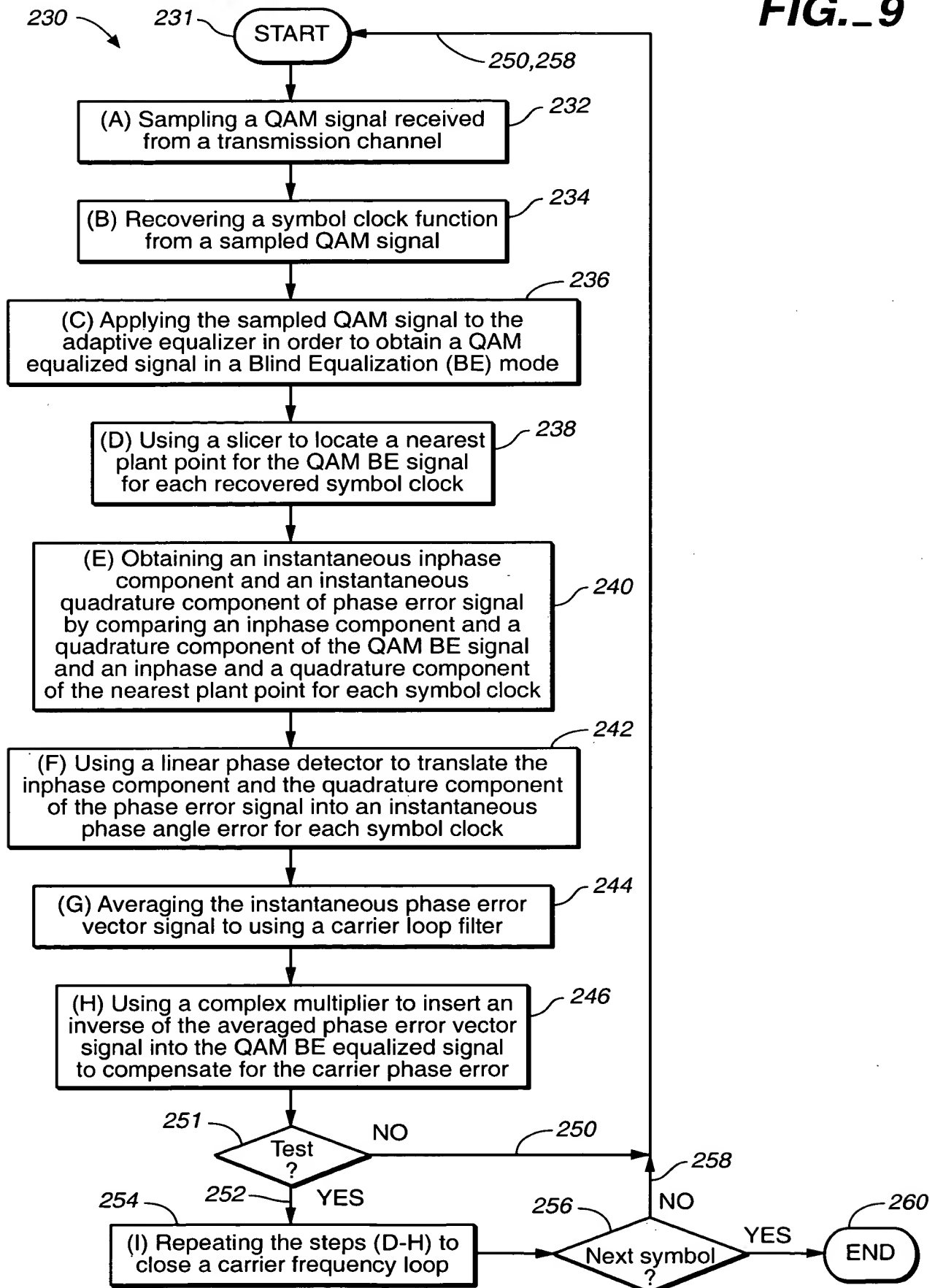


FIG. 8

FIG. 9





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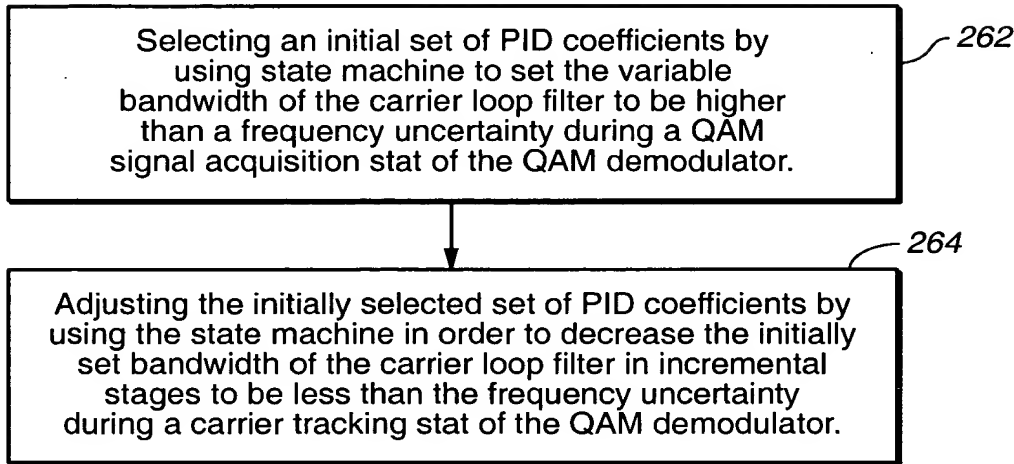


FIG. 10

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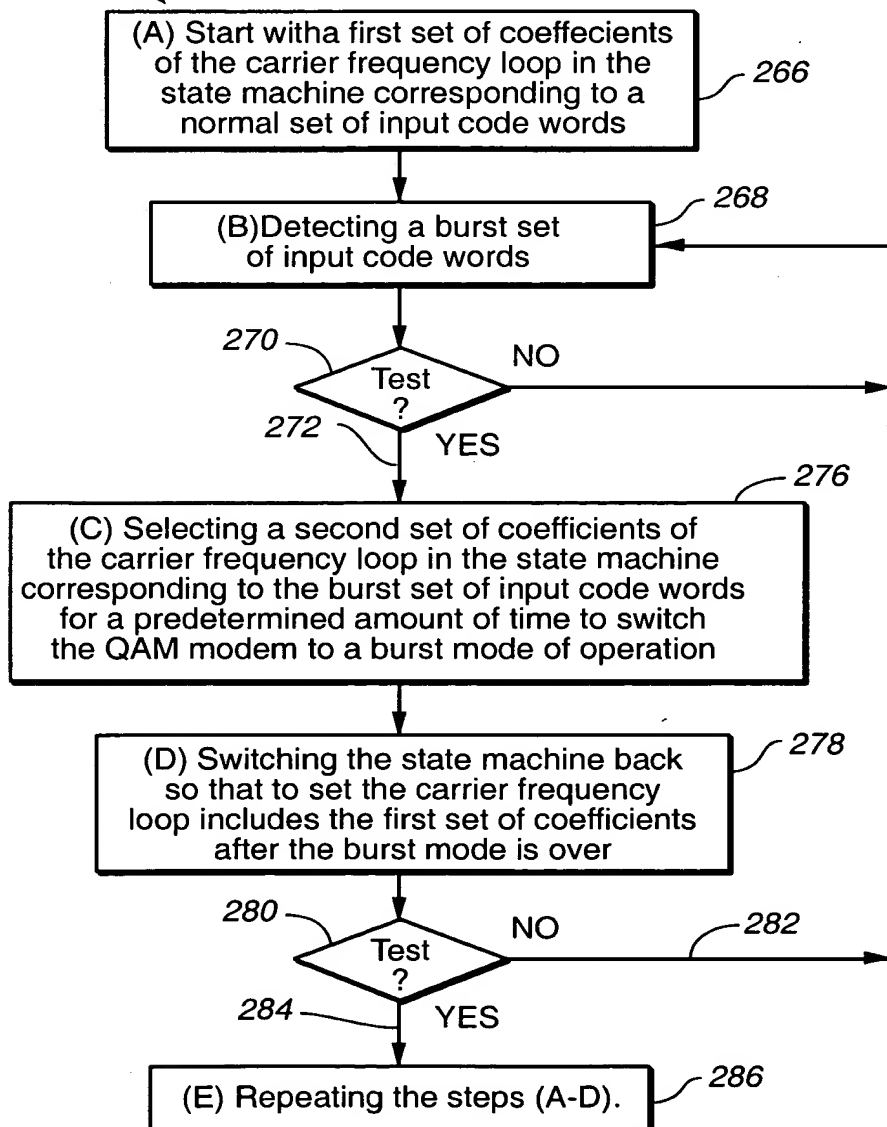


FIG. 11